

TRAFFIC SIGNAL TECHNICIAN I/II

Purpose:

To actively support and uphold the City's stated mission and values. To perform highly technical work in the installation, operation and maintenance of electrical, electronic and digital controlled traffic signal control devices and lighting systems.

Distinguishing Characteristics:

<u>Traffic Signal Technician I</u> - This is the entry level class in the Traffic Signal Technician series. This class is distinguished from the Traffic Signal Technician II by the performance of the more routine tasks and duties assigned to positions within the series. Since this class is typically used as a training class, employees may have only limited or no directly related work experience.

Traffic Signal Technician II - This is the full journey level class within the Traffic Signal Technician series. Employees within this class are distinguished from the Traffic Signal Technician I by the performance of the full range of duties as assigned. Including the design of electronic circuits, the development of preventive maintenance programs and the coordination of the installation, operation, maintenance, and repair of traffic signal control devices and lighting systems. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise, and are fully aware of the operating procedures and policies of the work unit. Positions in this class are flexibly staffed and are normally filled by advancement from the I-level or when filled from the outside require previous signal maintenance experience.

Supervision Received and Exercised:

Traffic Signal Technician I

Receives immediate supervision from the Traffic Signal Supervisor, Traffic Signal Technician Crew Leader, or from other supervisory or management staff.

Traffic Signal Technician II

Receives general supervision from the Traffic Signal Supervisor, Traffic Signal Technician Crew Leader, or from other supervisory or management staff.

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Traffic Signal Technician I/II (continued)

May exercise functional and technical supervision over lower level signal maintenance staff.

Examples of Duties:

This class specification is intended to indicate the basic nature of positions allocated to the class and examples of typical duties that may be assigned. It does not imply that all positions within the class perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.

Duties may include, but are not limited to, the following:

- Troubleshoot, repair and maintain traffic signal control devices, systems and auxiliary equipment including analog, digital, electronic, and microprocessors.
- Repair or replace damaged signal equipment such as signal poles, signal and pedestrian heads, and push buttons.
- Perform a variety of preventive maintenance duties including changing signal bulbs, cleaning reflectors and refractors, painting poles, and cleaning signal control cabinets.
- Install, maintain and repair pre-timed, semi-automatic, fully automatic, electromechanical, electronic and digital controllers, auxiliary equipment, and similar devices.
- Assist in wiring new intersections according to wiring specifications.
- Install and test solid state digital electronic devices in cabinets according to system schematics.
- Repair roadway lighting systems at signal intersections and various other locations.
- Coordinate signal related repairs and installations with other City divisions and departments as well as outside agencies and contractors; work with Fire Department in installing and testing new and existing fire preemption circuits; work with phone company to troubleshoot central system communication circuits.
- Design, build, test and install electronic auxiliary timing circuits and auxiliary circuits.

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- Develop, implement and document preventive maintenance programs to minimize future problems and to keep the traffic signal system in optimum operating condition.
- Operate advance system controller; operate test equipment for TS II equipment.
- Participate in the scheduling of traffic signal and lighting construction projects by coordinating personnel, materials and equipment.
- Perform aerial work such as hanging banners and repairing malfunctioning traffic signals and street lights.
- Receive and respond to trouble calls during normal work schedule, evenings, weekends and special events.
- Create and close Hansen software work orders.
- Install traffic cones and barricades; direct and control traffic during normal work schedule, evenings, weekends and special events.
- Maintain computerized time, material and equipment use records.
- Perform related duties as assigned.

Experience and Training Guidelines:

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. The hiring department may include job related experience, training or license and certification preferences at the time of recruitment. A typical way to obtain the knowledge and abilities would be:

Experience:

Traffic Signal Technician I

Some experience in the installation, maintenance and repair of electronic control devices preferably including traffic signal control devices.

Traffic Signal Technician II

One year of experience in the installation, maintenance and repair of electrical, electronic and digital signal control devices comparable to that of a Traffic Signal Technician I in the City of Tempe.

Training:

Traffic Signal Technician I/II (continued)

Traffic Signal Technician I

Equivalent to the completion of the twelfth grade supplemented by specialized training in electronics or a related field. An Associate of Arts degree is highly

desirable.

Traffic Signal Technician II

Equivalent to the completion of the twelfth grade supplemented by specialized training in electronics or a related field. An Associate of Arts Degree is highly

desirable.

Licenses/Certifications:

Traffic Signal Technician I

Requires the possession of a valid driver's license.

Possession of, or ability to obtain, a Work Zone Safety Certificate, Electronic or Electrical Technician Certificate and a Level I International Municipal Signal

Association (IMSA) Certification.

Traffic Signal Technician II

Requires the possession of a valid driver's license.

Possession of, or ability to obtain a Work Zone Safety Certificate, Electronic or Electrical Technician Certificate and a Level II International Municipal Signal

Association (IMSA) Certification.

This position is included in the City's classified service, pursuant to City of Tempe

Personnel Rules and Regulations, Rule 1, Section 103.

Job Code: 188/215

FLSA: Non-Exempt/Non-Exempt

Effective November 1988 Reviewed October 1995 Revised August 2003 (revised duties) Revised December 2005